

Exhibit “13”

IN THE UNITED STATES DISTRICT COURT
IN AND FOR THE WESTERN DISTRICT OF WASHINGTON
AT TACOMA

BRYCE MEYER, individually and as the
representative of all persons similarly situated

Plaintiff,

vs.

AMERICAN FAMILY MUTUAL
INSURANCE COMPANY and AMERICAN
STANDARD INSURANCE COMPANY OF
WISCONSIN, foreign insurers;

Defendants.

Case No.: 3:14-CV-05305-RBL

DECLARATION OF KRISTIN L. WOOD, Ph.D.

I, Kristin L. Wood, Ph D., declare as follows:

1. I am currently the Head of Pillar of Engineering Product Development, co-Director of the SUTD-MIT International Design Centre (IDC), and Professor of Engineering at the Singapore University of Technology and Design (SUTD). After completing my doctoral work in September 1989, I was an endowed Professor and Distinguished Teaching Professor of Mechanical Engineering at The University of Texas at Austin.

2. My academic specialty includes product-machine design, manufacturing processes, product design and development, and automobile systems of the type relevant to this lawsuit. I have been retained in the current case, and in prior cases, to evaluate technical issues associated with automobiles that are involved in certain accidents within six years of their original

production and which fit within the proposed Class definition. I have personal knowledge of the matters set forth below and if called upon as a witness would be competent to testify.

3. After considering the Class Action Complaint for this case, I have drawn a number of conclusions concerning the state of a vehicle after such a crash or after its subsequent repair. My testimony here relies on the information provided to me as of the date of this declaration. These findings are subject to any new information that subsequently may be made available.

4. This declaration is divided into four sections. In addition to this introductory section, the second section lists my education and professional background, and the third and fourth sections contain my basic opinions and conclusions regarding the technical matters related to the pleadings set forth in this case.

5. As discussed in more detail below, the following are my opinions to a reasonable degree of engineering certainty: (1) a vehicle that encounters an accident (of the type described in the complaint) and subsequent repair will have qualitative differences compared to its pre-accident condition (due to the loosening of parts and secondary damage); (2) it is impractical and infeasible, applying common repair procedures, to check weld strengths and component dimensions; and (3) a significant likelihood exists that structural members repaired with sectioning and straightening techniques will not exhibit the same structural integrity and energy management characteristics as the original members.

II. Educational and Professional Background

6. The following is a summary of my background, particularly as it relates to the matters set forth in this declaration. Over the past twenty-five years, my specialty has been in the field of product design, product development, reverse engineering, and innovative manufacturing processes.

A. Education

7. I have a Bachelor of Science, Master of Science, and Doctorate of Philosophy degrees in engineering. In 1985, I received a Bachelor of Science degree in Engineering Science

(Minor in Mathematics) from Colorado State University. In 1986, I received a Master of Science degree in Mechanical Engineering (Engineering and Applied Science Division) from the California Institute of Technology (Caltech) and, in 1989, a Ph.D. degree in Mechanical Engineering (Engineering and Applied Science Division) from Caltech. During my time at Caltech, I conducted research in the field of engineering design and was an AT&T Bell Laboratories Ph.D. Fellow.

B. Professional Positions

8. Over the last twenty-five years, I have held a number of industry and academic positions. In 1989, I joined the faculty at The University of Texas as an assistant professor, establishing the Manufacturing and Design Laboratory (MaDLab) in the same year. I was appointed as the June and Gene Gillis Endowed Faculty Fellow in Manufacturing in 1992. I was subsequently promoted to the position of associate professor in 1994 and full professor in 2000. In 2000, I was appointed to the Cullen Trust Endowed Professor in Engineering, and I was appointed as the Director of the Laboratory for Freeform Fabrication in the same year. In 2003, I was selected to the Academy of Distinguished Teaching Professors at The University of Texas, and I received an appointment as a University Distinguished Teaching Professor. I held these positions in the areas of Mechanical Systems and Design and Manufacturing and Design in the Mechanical Engineering Department.

9. In addition to the academic positions at The University of Texas, I also held an academic position at the United States Air Force Academy (USAFA). During a 10-month period in 1997-98, I was appointed to the position of Distinguished Visiting Professor at the USAFA in the Department of Engineering Mechanics. My duties included the development of design curriculum, the creation of student laboratory experiments and activities and research in engineering design.

10. As a result of these academic positions, I have also received over 35 national and international awards, including the National Science of Young Investigator Award, the ASEE

Fred Merryfield Design Award, the National Society of Professional Engineers AT&T Engineering Teaching Excellence Award, the Engineering Foundation Faculty Excellence Award, and the Lockheed Martin Engineering Outstanding Teaching Award. I am currently a Fellow of the American Society of Mechanical Engineers.

11. I have served on a number of national and international panels and committees. Examples include: Chair of the American Society of Mechanical Engineers Design Theory and Methodology Committee, Chair of the Design Theory and Methodology Conference, associate editor of the American Society of Mechanical Engineers Journal of Mechanical Design, technical reviewer for the National Science Foundation proposal review panels, and Board Member of the Design Society (international).

12. From 1980 to the present, I have also held a number of industry positions. These positions range from Engineering Aide with the Colorado State Highway Department to a project director in an engineering group with IBM. Duties in these positions varied significantly, from engineering analysis and business case assessments, to product design, to the management of projects within the companies. As part of these positions, I designed, reverse-engineered, redesigned, or worked with machinery that included construction equipment, power, ergonomic and testing systems, safety devices and alert systems and fabrication equipment. I have also served on committees that reviewed patents and related invention disclosures.

C. Technical Research

13. During the last twenty-five years, I have conducted more than 100 sponsored research projects with industry, federal and state governments, and government agencies in Singapore. The purpose of my research is to contribute to the fields of design innovation, advanced manufacturing processes, such as Solid Freeform Fabrication, methods in product development, design for manufacturing and tolerance methods, machine-system design, design for product flexibility, design transformer theory, reverse engineering, and design teaching and learning methods for kindergarten through graduate levels. Example applications of this research

include the development of unmanned aerial vehicles, micro-electro-mechanical systems, robotic systems, energy harvesting systems, and flexible consumer products.

14. My research has resulted in a textbook (Product Design (Otto and Wood, 2001)), over 350 technical publications in refereed conference proceedings, refereed journals, and books or book chapters, advisement of more than 100 masters and Ph.D. students, and a number of research awards. This research has resulted in the design (in whole or in part) of over 300 products and experimental manufacturing equipment. A significant percentage of these products and equipment focused on or were automotive parts or related equipment.

15. In conjunction with my research, I have taught a number of undergraduate and graduate courses on machine design, automotive design/vehicle dynamics, and product development. The projects in these courses have focused on the redesign, original design, and reverse engineering of consumer products within the range of projects, a number have focused on the redesign or original design of automotive parts and related components, including door panels and accessories, powertrain components, truck gates, wheel assemblies, structural members, body panels, and interior components.

16. These courses include focus topics on product design, machine elements, and automobile systems. Course materials cover concepts such as product disassembly and measurement, customer needs analysis, product specification development, quality and "robustness," design for "six sigma," prototyping/product testing, computer-aided design ergonomics (aesthetics, safety, and human interfaces), and vehicle dynamics.

D. Related Device Applications

17. I have concentrated in the design, innovation and evolution of applied technologies. As part of these efforts, I have been involved with a number of systems that include features similar to those raised by this lawsuit. Selected examples of these systems include a tool to assist in the distribution of parts on a Ford automobile assembly line, the design of a tool to install Mustang brake lines, a pneumatic impact hammer for the assembly of SUV

doors, the redesign of various automobile subsystems such as an auxiliary visor and door panels the design of an SAE Formula car, the design of an SAE Mini-Baja vehicle, the design and testing of scaled vehicle models, and the reverse engineering and redesign of a number of consumer products. In addition, The University of Texas Product Development and Prototyping Laboratory and Manufacturing and Design Laboratory included a range of manufacturing capabilities.

III. Expected Testimony

18. The following is my expected testimony for the matters set forth in this case. In reaching these opinions, I rely on various materials, including the Class Action Complaint and estimate of record for the proposed Class representative Mr. Meyer, as well as my personal experience in industry, my training, my education, my general knowledge of related fields, and my prior work and research in the prior diminished value cases where I have been disclosed and deposed. These cases include, but are not limited to *Moeller/Janhunan, Mansker, Snyder, and Hovencotter*.

19 I expect to testify about a number of technical issues concerning vehicles that have been involved in certain accidents and subsequently repaired. My expected testimony assumes the following facts: (1) the repair estimates of the subject vehicles total at least \$1,000, including supplements; (2) the vehicles were involved in a crash within six years of their original production; (3) the vehicles had less than 90,000 miles at the time of the accidents; and (4) the vehicles suffered structural (frame) damage, and/or deformation to sheet metal parts; and/or required body or paint work.

20 Based on these assumptions, and within a reasonable degree of engineering certainty, there exist qualitative differences in a vehicle after an accident and subsequent repair, compared to the pre-accident condition of the vehicle. These differences are a result of the loosening of parts (causing vibration, rattles, and other anomalies), changes in metal material properties, and undetectable (in the sense of it being impractical and infeasible to detect in

collision repair) related secondary damage which results in collisions. During an accident of the type described in the complaint, the kinetic energy of a vehicle and/or other vehicles or objects is transmitted through the vehicle. This energy transmission creates internal force flow through all vehicle components, and is dissipated through the deformation of vehicle components, in addition to reaction forces with the environment surrounding the vehicle.

21. Because of the transmittance of energy and corresponding force flow and deformation, the interfaces between parts will loosen (compared to their original state) and undetectable, related secondary damage will occur in the vehicle, in locations far from the original impact point. These qualitative differences in the vehicle due to secondary damage are not a result of improper repair practices; it is infeasible, from a practical standpoint, to validate the state of each and every component of a vehicle during its repair. Due to the large number of interfaces between vehicle parts, part loosening and related secondary damage cannot be reasonably anticipated or predicted, nor its likely locations determined. These qualitative effects, likewise, cannot be visually diagnosed or tested with any existing standard practice in collision repair.

22. Besides qualitative effects, when vehicles are repaired, it is impractical and infeasible to check weld strengths for structural components and interfaces. The lack of equipment necessary for weld characteristics and testing, in addition to the large number and relative location of welds, leads to this condition. It is likewise impractical and infeasible to validate the position and part dimensions of all vehicle components. This circumstance is due to the large number of critical dimensions (and associated tolerances), the limited testing equipment for performing dimensional measurements, and the goal to reduce unnecessary disassembly of automobile subsystems, particularly for diagnostic purposes. These practical issues, along with the immense cost of the necessary disassembly (some of which is by nature destructive) make identifying secondary damage infeasible, and therefore prevent any assurance that vehicles will perform in the same manner during a second accident.

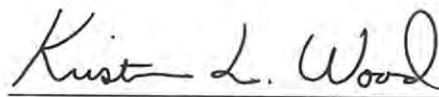
23. Finally, a common practice in repairing structural (frame) damage is to section a damaged portion of a structural member and “splice” a new sub-component. Because of issues related to repeatable welds, corrosion prevention materials, heat-sensitive materials, and maintaining energy management systems, repair technicians must have a high-level of training to satisfy the requirements for performing sectioning procedures. An alternative or complementary repair process is to perform a straightening procedure on certain components. By necessity, the material properties of straightened components deviate from their state prior to an accident through changes in the properties of the materials. Similar issues arise with the repair of other structural members and their ability to transmit energy. These issues lead to a significant likelihood that the repaired structural members on a vehicle will not provide the same structural integrity and energy transmittance as the original members

IV. Conclusions

24. In summary regarding vehicles that are involved in accidents corresponding to the class definition: (1) a vehicle that encounters such an accident and subsequent repair will have qualitative differences compared to its pre-accident condition (due to the loosening of parts and secondary damage); (2) it is impractical and infeasible to check weld strengths and component dimensions; and (3) a significant likelihood exists that structural members repaired with sectioning or straightening techniques will not exhibit the same structural integrity and energy management characteristics as the original members, and similar issues arise with the repair of other structural members and energy transfer. These findings rely on the information provided to me by the declaration creation date, and are subject to any new information that may be made available.

25. I declare under penalty of perjury that the forgoing is true and correct.

DATED at Singapore, December 15, 2014.



Kristin L. Wood
Kristin L. Wood, Ph.D.

Exhibit “A”

**Singapore University of Technology and Design
Engineering and Product Development Pillar
Résumé – Curriculum Vitae**

FULL NAME: Kristin Lee Wood

TITLE: Professor; Head of Pillar;
Engineering and Product Development
Co-Director of the SUTD-MIT IDC;
Fellow ASME

CITIZENSHIP: United States

DATE OF BIRTH: December 27, 1962

WORK ADDRESS:

Singapore University of Technology and Design
20 Dover Drive Singapore 138682
D: +65 6499 4560
Mobile: +65 9177 9551
kristinwood@sutd.edu.sg

HOME ADDRESS:

13700 Evergreen Way
Austin, TX 78737
(512) 288-6787
(512) 423-5257 (Cell)

FAMILY STATUS: Children - two daughters and one son (Katherine "Katie" Ann Wood, birth date: July 15, 1991; Emilia "Emily" Grace "Gracie" Wood, birth date: April 29, 1993; Zachariah "Zach" Robert Wood, birth date: December 11, 1995).

EDUCATION:

Colorado State University	Engineering Science with Computing Engineering Option	Bachelor of Science (Minor in Mathematics)	1985
California Institute of Technology (Caltech)	Mechanical Engineering	Master of Science	1986
California Institute of Technology (Caltech)	Mechanical Engineering Division of Engineering and Applied Science	Doctor of Philosophy	1989

CURRENT AND PREVIOUS ACADEMIC POSITIONS:

Colorado State University, Tutor and Teaching Assistant, Computer Assisted Engineering, 1983-1985
California Institute of Technology, Graduate Teaching Assistant, Division of Engineering and Applied Science, 1985-1988
California Institute of Technology, Graduate Research Assistant, Division of Engineering and Applied Science, 1985-1989
The University of Texas at Austin, Assistant Professor, Mechanical Engineering, 1989-1994
The United States Air Force Academy, Distinguished Visiting Professor, 1997-1998
The University of Texas at Austin, Associate Professor of Mechanical Engineering, 1994 –2000
The University of Texas at Austin, Director, Laboratory for Freeform Fabrication, 2004-2007
The University of Texas at Austin, Associate Director: Space Grant Consortium, 2004-2008
The University of Texas at Austin, Area Head, Division of Manufacturing and Design (over 30 faculty members), Mechanical Engineering, 2003-2010
The University of Texas at Austin, Professor of Mechanical Engineering, 2000-2012
Singapore University of Technology and Design, Professor, Head of Pillar, Engineering Product Development, and co-Director, SUTD-MIT International Design Centre (IDC), 2011-Present

Undergraduate Courses Taught/Developed:

- (i) Mechanical Engineering Design Methodology (ME 366J) (Completely Revised Course: Summer 1990); Text: Pahl, G. and Beitz, W., *Engineering Design*, Springer-Verlag, New York, 1984; Ullman, D., *The Mechanical Design Process*, McGraw-Hill, NY, 1992, and Otto, K. and Wood, K., *Product Design*, Prentice-Hall, NY, 2001).
- (ii) Mechanical Engineering Design Projects (ME 466K).
- (iii) Lecture: “Engineering Design from Concept to Production” (Introduction to Mechanical Engineering, ME 102).
- (iv) Dynamic Systems and Controls (ME 344); Text: Karnopp, D.C., Margolis, D.L., and Rosenberg, R.C., *System Dynamics: A Unified Approach*, 2nd Ed., Wiley International, NY, 1990.
- (v) Dynamic Systems and Controls Laboratory (ME 144).
- (vi) Engineering Fundamentals for Elementary Teachers (Science 360).
- (vii) A Second Course in Engineering Fundamentals for Elementary Teachers (Science 360).
- (viii) Lecture: “Engineering in Industry vs. Academia” (ME TQM Course).
- (ix) Introduction to Mechanical Engineering (ME 202), Primary project: the reverse engineering of a mechanical product.
- (x) Engineering Design (Engineering Mechanics 290, USAFA, Fall 1997, Spring 1998), Sophomore-Level Course; Reverse-Engineering and Redesign. Completely modified course to include reverse engineering; created course CD.
- (xi) Machine Design (Engineering Mechanics 470, USAFA, Fall 1997), Introduced Hands-on Component Design; Project: Redesign and Analysis of RC Cars and Lego Mindstorms/RoboLab, Applied NSF Grant Results of Active-Learning Products for Mechanics of Materials.
- (xii) Capstone Design (Mechanical Engineering 492, USAFA, Spring 1998). Text: Ulrich, K. and Eppinger, S., *Product Design and Development*, McGraw-Hill, NY, 1994. Introduced reverse engineering labs to support design methods/process.
- (xiii) Engineering Mechanics Core Course, Fundamentals of Mechanics (EM 200Z, USAFA, Spring 1998); developed new course based on discovery-experiential learning, Spring 1999.
- (xiv) Machine Elements (ME 338), Introduced Hands-On Component Design, Mechanical Breadboards, and Reverse Engineering Analysis Projects.
- (xv) Formula Car Design/Vehicle Dynamics (ME 377K), Elective course to implement design methods and teaming strategies for designing and constructing an SAE Formula car.
- (xvi) Interdisciplinary Product Design (ME 377K), Elective course to create an interdisciplinary, full-year capstone design experience. Supported and funded by Schlumberger. Design teams composed of electrical and mechanical engineering students, 2005-2007.
- (xvii) Mechatronic Systems: ROBOLAB and Real-World Systems (ME 397P and ME 377K), Elective graduate and undergraduate course. Focus is on the study of real-world devices that use sensors, actuators, and control subsystems. Within this focus, students learn ROBOLAB software (based on LabVIEW), LEGO Dacta Hardware, basic mechatronic architecture. They apply these tools in the emulation of various scaled systems, in the writing of lessons for hands-on mathematics and science for primary and secondary schools, and in the partnering with teachers to deploy these lessons, 2005-2006.
- (xviii) Freshman Seminar: The Engineered World: Products and Innovation (FS 301, UGS 302), University-wide offering, Substantial Writing Course. In our “flat world” economy, engineered products have a tremendous impact on all aspects of our daily lives. The intent of this freshman seminar is to explore the exciting world of engineered products, from the

perspective of history, current markets, and future forecasting. We will focus this exploration on innovations as they have changed the landscape of nations and cultures, especially the United States'. This focus will include hands-on studies of everyday technologies, a review of "Modern Marvels," the translation of societal needs into specifications and ideas for new products, and the study of how to bring together the elements of materials, energy, systems and models to design and manufacture products which are effective, efficient, economical, and ecological. Each student in the class will have exciting opportunities to identify new product ideas and fulfill these ideas in the development of prototypes and conceptual models, Fall 2007-2009.

- (xviii) UT & TAM Lone Star Challenge (ME 377K – ME 466K, Honors ME 366J – ME 466K), Replacement course for ME 366J and ME 466K, Students learn ME design methodology and apply the results to an AFRL sponsored design challenge, such as development of an urban-based sentry system utilizing Unmanned Aerial Vehicles (UAVs), at least in part. The project for the course culminates in design competition with Texas A&M University in the Spring semester, Fall 2007 – Spring 2008; UT Dirty Dozen design team won inaugural competition; Fall 2009 – Spring 2010: UT RoboBevo design team won Lone Star Challenge.
- (xix) Freshmore Introduction to Design (3.007), SUTD, Introduces participants to concepts of design at a variety of scales and through both engineering and architectural design disciplines. Participants are exposed to core technology and design themes including principles, design processes, modes of thinking and analysis, relationships between form, space, structure and materiality, fabrication technologies, and social and cultural aspects of design. The subject introduces essential skills and mindset of innovation, entrepreneurship, and methodologies in design including teamwork and workflow organization, team building and leadership, written and oral communication, site analysis, graphic and analytical representation, fabrication techniques, and a variety of computational techniques. Student teams formulate and complete design projects, setting and achieving milestones under a team of instructors composed of both engineers and architects; projects are defined in connection with service-based learning, societal need and applications in outreach, transportation, the built environment, energy, infrastructure and others.

Graduate Courses Taught:

- (i) Engineering Design: Theory, Techniques, and Automation (ME 397; ME 392M.6) (Developed Course: Spring 1990); Text: Otto, K. and Wood, K., *Product Design*, Prentice-Hall, NY, 2001; Various References.
- (ii) Product Design, Development, and Prototyping (ME 392M.2) (Developed Course: 1993-94); Text: Ulrich, K. and Eppinger, S., *Product Design and Development*, McGraw-Hill, NY, 1994; Otto, K. and Wood, K., *Product Design*, Prentice-Hall, NY, 2001. (Student's received international design competition awards for assistive devices for persons with disabilities, RESNA — Rehabilitation Engineering Society of North America: twenty-five [25] from 1995-2010.)
- (iii) Fundamentals of Solid Freeform Fabrication (SFF), Manufacturing Decision and Systems Engineering Program, (Developed Course Fall 2002), Text: Various literature from the area, Introduced hands-on and cooperative learning methods for SFF fundamentals.
- (iv) UTeachEngineering: Design of Machines and Systems (Developed Course Spring 2010), Area survey course for Master of Arts in Science and Engineering Education (MASEE) as part of the UTeachEngineering program.
- (v) System Design Metrics (ENM 383.3), Engineering Management Course (Developed Course Spring 2011).

*Résumé – Curriculum Vitae**Kristin L. Wood, Ph.D.*

Creativity and Design Course, Institute of Asian Consumer Insight, Nanyang Technological University (Developed Course Spring 2013)

In this course, students: (a) Identify the basics of product design and the role of marketing and other disciplines in the development of innovative products; (b) Distinguish key issues behind successful designs related to form, function, aesthetics and experience; (c) Collaborate in design teams to generate and integrate creative ideas into innovative product designs; and (d) Critically analyze cutting edge and relevant issues in product design, particularly in an Asian cultural context.

- (vi) Multi-Energy Systems: Graduate course on theory, applications, and practical approaches to modeling and control of multi-energy systems across domains. Course includes fundamentals of bond graph modeling approach.

Co-Director NASA/USRA Program, Dept. of Mechanical Engineering:

Capstone design (with Dr. S. Nichols), 1989-1992;

Design methodology (with Drs. Nichols/Crawford), 1992-1995.

CONSULTING:

3M Corporation, Presentation Media, 1991

Austin Independent School District (AISD), AIM High Program, 1991-1993

Management Institute, UT Austin, 1991-1992

AISD Science Academy, 1992

Center for Electromechanics, UT Austin, 1992

Continuing Education in Engineering, College of Engineering, UT Austin, 1992

Southwest Educational Development Laboratories, 1993-1995

Mithoff and Jacks Law Office, 1993-1995

Prince Corporation, Automotive Subsystems, Auxiliary Visor Redesign, 1994-1995

Gill and Associates, 1995-1998

AISD Summer Science Institute, 2nd Grade, 1996

National Technological University, 1996-1997

Prentice Hall, Simon & Schuster Higher Education Group, Book Reviewer, 1996

Asghar, et al., 1996-1997

Ivey, et al., 1996-1997

City of Austin, 1997

Adorno/Rogers Technology Inc., 1997-1998

Texas Society of Professional Engineers, 1998-2000

Howrey, Simon, Arnold, & White Attorneys at Law, Patent Infringement, 2000-2001

Ford Motor Company, Design for Six Sigma (DFSS), 2000-2001

Ford Motor Company, Automotive Subsystem Design, 2000-2002

Howrey, Simon, Arnold, & White Attorneys at Law, Trademark Infringement, 2000-2001

Ford Motor Company, FTEP Program, 2001

Bonnett, Fairbourn, Friedman, & Balint, Class Action Cases, 2001-2007

Innovative Product Development, Venture Project, 2002-03

Baker and Botts, LLP, Patent Infringement, 2002-2003

Lerach Coughlin Stoia Geller Rudman & Robbins LLP, 2002-2007

National Instruments, 1999-2006

Product Development Systems & Solutions (PDSS), Adjunct Consultant, 2002-2003

*Résumé – Curriculum Vitae**Kristin L. Wood, Ph.D.*

Andrews and Kurth, LLP, 2003-2005
 Howrey, Simon, Arnold, & White Attorneys at Law, Consultant, 2003
 Kluger, Peretz, Kaplan & Berlin, LLP, Miami, FL, Consultant, 2003
 Murdock, Goldenberg, Schneider, & Groh, Consultant, 2004-2005
 Brown & McCarroll, Austin TX, Patent Infringement and Invalidity, 2004-2005
 Brown & McCarroll, Austin TX, Consultant: Trade Secrets, 2004
 John Henry Enterprises, Austin, TX, Bearing Assembly Product Design, 2004-2005
 Baker and Botts, LLP, Consultant: Patent Infringement, 2004-2005
 Young and Thompson, LLP, Consultant, Patent Infringement and Product Reverse Engineering, 2004-2007
 John Henry Enterprises, Austin, TX, Scaled Testing Systems and Product Design, 2005-2006
 Medium Technology Assistive Technologies, Product Analysis and Testing, 2005
 Fish & Richardson PC, Intellectual Property, 2005
 Perkins Coie, LLP, Intellectual Property, 2005-2006
 Creative Therapies, LLC, Innovative Low-Volume Assistive Technologies, 2005-2006
 Oak Hill Technology, Inc, Educator Certification Program, 2006
 Procter & Gamble Co., Consulting, 2006
 Young and Thompson, LLP, Consulting on Patent Infringement and Validity, 2007
 Ambrose and Amanullah, Design and Prototyping of a Suitcase-Seat System, 2007
 Stevensons, LLP, Canadian Class Action Case, 2007
 Akerman-Senterfitt, Consulting on Patent Infringement and Validity, 2006-2007
 Baker Botts, Consulting on Patent Infringement and Validity, 2007-2008
 Perkins Coie, LLP, Design and Manufacturing of Tubing-Frame Structures, 2007
 Cash, Klemchuk, Powers, & Taylor, LLP, Consulting on Patent Infringement and Validity, 2007-2008
 United States Air Force Research Labs (AFRL), Wright-Patterson, Commander's Challenge Program,
 Innovation Processes Mentor for Kirtland UAV Team (Winner of CC), 2007
 Brinks, Hofer, Gilson, & Lione, Intellectual Property Consulting, 2007-2009
 Vinson & Elkins, LLP, Intellectual Property Consulting, 2007-2009
 Howrey, LLP, Intellectual Property Consulting, 2008-2009
 Banner & Witcoff, Ltd., Intellectual Property Consulting, 2008-2011
 United States Air Force Research Labs (AFRL), Wright-Patterson, Commander's Challenge Program,
 Innovation Processes Mentor for Kirtland and Wright-Patterson Tag-Track Teams, 2008
 Schlumberger, CTV Devices for Oil Well Measurement Systems, 2009
 United States Air Force Research Labs (AFRL), Wright-Patterson, Commander's Challenge Program,
 Innovation Processes Mentor for Kirtland and Wright-Patterson Deep Valley ISR Teams, 2009
 Rear Window Media, 2010
 United States Air Force Research Labs (AFRL), Wright-Patterson, Commander's Challenge Program,
 Innovation Processes Mentor for Kirtland and Wright-Patterson FOP Protection Teams, 2010
 Bonnett, Fairbourn, Friedman, & Balint, Class Action Cases, 2010-2011
 United States Army Defense Ammunition Center, Development of innovative demilitarization and recycling
 approaches for military ordinance, July and October 2010, 2011
 United States Air Force Research Labs (AFRL), Wright-Patterson, Commander's Challenge Program,
 Innovation Processes Mentor for Eglin and Wright-Patterson FOB / COP Protection Teams, 2010
 Young and Thompson, LLP, Consulting on Patent Infringement and Validity, 2011
 United States Air Force Research Labs (AFRL), Wright-Patterson, Commander's Challenge Program,
 Innovation Processes Mentor for Eglin and Wright-Patterson Teams, 2011
 United States Air Force Research Labs (AFRL), Wright-Patterson, Commander's Challenge Program,
 Innovation Processes Mentor for Eglin and Wright-Patterson Teams, 2012
 NTU ACI Program, 2013-2014

Résumé – Curriculum Vitae

Kristin L. Wood, Ph.D.

OCBC Design Science and Thinking, 2014
DSTA Design Science and Design Thinking, 2014

HONORS AND AWARDS:

Elk's Student of the Month, 1981
Bausch and Lomb Math and Sciences Award, 1981
National Who's Who Award, 1981
Ranum Physics Student of the Month, 1981
Ranum Scholar Award, 1981
Ranum Faculty Award, 1981
Ranum Scholar - Athlete Award, 1981
Salutatorian Iver C. Ranum High School, 1981
Elk's Foundation "Most Valuable Student" Award, 1981
Phi Sigma Freshman Honors Award, 1981-1982
Phi Kappa Phi National Honors Award, 1982
Alpha Lambda Delta Freshman Honors, 1981-82
Colorado State University Presidential Award, 1981-1985
Colorado State University Engineering Dean's List, 1982-1985
Myron Brown Ludlow Award, Colorado State University, 1982-1985
Colorado State University Engineering Dean's Council Award, 1982-1985
Tau Beta Pi National Honors Society, 1984-1985
IEEE Merwin Scholar, 1984-1985
Golden Key National Honors Society, Colorado State University, 1985
Colorado State University (CSU) Alumni Services Award, 1985
Engineering Science Outstanding Senior, Colorado State, University, 1985
Bachelor of Science (Magna cum Laude), Colorado State University, 1985
AT&T-Bell Laboratories Ph.D. Scholar, sponsored by the AT&T Foundation, 1987-1989
American Men and Women of Science, 1991
Teaching Excellence Award, UT Department of Mechanical Engineering, Lockheed Martin, 1992
Read Apple Award, Awards Committee of the Austin Independent School District, Adopt-A-School Board of Directors, 1992
Selection: Research Associate for the Air Force Office of Scientific Research Summer Faculty Research Program (declined for leave of absence at IBM Austin, June 1992), 1992
AISD Adopt-A-School Program: Service Award, Awarded to the UT Department of Mechanical Engineering, 1992
National Science Foundation Young Investigator Award, 1992-1998
ASME (American Society of Mechanical Engineering) Design Theory and Methodology Best Paper Award, Phoenix, AZ, September 1992
June and Gene Gillis Endowed Faculty Fellowship in Manufacturing, UT Austin, College of Engineering, 1993-2001
ASME (American Society of Mechanical Engineering) Design Theory and Methodology Conference Best Paper Award, Albuquerque, NM, September, 1993
W. M. Keck Foundation National Award for Engineering Teaching Excellence, 1994-1995
ASEE (American Society of Engineering Education) Fred Merryfield Design Award, 1995
NSPE (National Society of Professional Engineers) National AT&T Engineering Teaching Excellence Award, 1995

*Résumé – Curriculum Vitae**Kristin L. Wood, Ph.D.*

Selected, USAF Academy, Distinguished Visiting Professor, Engineering Mechanics, 1997-1998
 Engineering Foundation Faculty Excellence Award, Halliburton Teaching Award Winner, The University of Texas, 1997-1998
 ASEE (American Society of Engineering Education) Best Paper Award, Mechanical Engineering Division, ASEE Annual Conference, 1998
 Departmental Teaching Excellence Award, UT Department of Mechanical Engineering, Lockheed Martin, 1999
 ASME (American Society of Mechanical Engineering) Design Theory and Methodology Conference Best Paper Award, sponsored by Xerox, Las Vegas, NV, September 1999
 Lockheed Martin Engineering Outstanding Teaching Award, College of Engineering, The University of Texas at Austin, Nominated, 2000
 ASME 2000 Curriculum Innovation Award, "Incorporating Learning Styles to Enhance Mechanical Engineering Curriculum by Restructuring Courses, Increasing Hands-On Activities, and Improving Team Dynamics," joint between the United States Air Force Academy and UT Austin, 2000
 ASME Service Award, Design Theory and Methodology Committee Chairperson, 2001
 Education Excellence Award, Design Technology and Engineering for America's Children (DTEACH), Engineering, Science and Technology Council of Houston, 2001
 Lockheed Martin Aeronautics Company Award for Excellence in Engineering Teaching, UT Austin, 2002
 ICED (International Conference on Engineering Design), Design Society, Best Paper Award, Stockholm, Sweden, August 2003
 Maxine and Jack Zarrow Family K-16 Teaching Innovation Award (First Inaugural Recipient), College of Engineering, The University of Texas, 2004-05
 ASEE (American Society of Engineering Education) Best Paper Award, Mechanics Division, Machine Design Paper, Portland, OR, 2005
 ASEE (American Society of Engineering Education) Best Presentation Award, Mechanics Division, Session 1168 - Improving Mechanics of Materials, "Enhancing Machine Design Courses Through Use of a Multimedia-Based Review of Mechanics of Materials, Portland, OR, 2005
 ASEE (American Society of Engineering Education) Best Paper Nomination, Mechanics Division, Design Methodology for Active Learning Products, Chicago, IL, 2006
 Outstanding Graduate Teaching Award Nomination, The University of Texas, 2006
 Piper Professor Award Nomination, Minnie Stevens Piper Foundation, 2006
 ASEE (American Society of Engineering Education) Best Presentation Award, Mechanics Division, "From Tootsie Rolls to Composites: Assessing a Spectrum of Active Learning Activities in Engineering Mechanics," Honolulu, HI, 2007
 Distinguished Alumnus Award, College of Engineering, Colorado State University, 2010
 Regent's Outstanding Teaching Award, Tenured-Faculty, "One of the highest honors bestowed by The University of Texas System (10 Universities) for educational excellence," 2010
 Honorable Mention Paper Award, "Studying Ideation in Engineering Design." Presented in the "Outstanding Contributions – Mechanical Engineering Education" session, Mechanical Engineering Division, ASEE Conference in Vancouver B.C., 2011
 ASEE (American Society of Engineering Education), Design Division, Best of Design Session, San Antonio, TX, 2012
 ASME (American Society of Mechanical Engineering), Design Engineering Division, Design Theory and Methodology Technical Committee, Best Paper Award, Paper: "The Meaning of 'Near' and 'Far': The Impact of Structuring Design Databases and the Effect of Distance of Analogy on Design Output," Chicago, IL, August 2012
 Cullen Trust for Higher Education Endowed Professor in Engineering No. 1, UT Austin, College of Engineering, 2001-2012

Résumé – Curriculum Vitae

Kristin L. Wood, Ph.D.

University Distinguished Teaching Professor Award, Academy of Distinguished Teachers, 2003-2012
ASME 2014 International Design Engineering Conferences & Computers and Information in Engineering Conference, IDETC/CIE 2014, 11th International Conference on Design Education (DEC), Best Paper Award: "Designettes: New Approaches to Multidisciplinary Engineering Design Education," Buffalo, NY, August 2014
Elected Fellow, American Society of Mechanical Engineers, 2014-Present

MEMBERSHIPS IN PROFESSIONAL AND HONORARY SOCIETIES:

Member, IEEE Computer Society, 1983-1992
Member, Tau Beta Pi Engineering National Honors Society, 1985-Present
Member, Phi Kappa Phi National Honors Society, 1985-Present
Member, American Society of Engineering Education, 1989-Present
Member, Society of Automotive Engineering, 2005-Present
Member, American Society of Mechanical Engineering, 1989-Present
Member, Board Member, International Design Society, 2000-Present

PROFESSIONAL SOCIETY, MAJOR GOVERNMENTAL COMMITTEES:

ASME Design Theory and Methodology Committee, 1989-Present
Committee Chairman, American Society of Mechanical Engineers, Design Theory and Methodology Committee, 1998-2000
International Design Society, Board of Management, 2000-2004
Scientific Advisory Board, International Conference on Engineering Design, 2000-Present
Solid Freeform Fabrication Organizing Committee, 2000-2007

CONFERENCES ORGANIZED/CHAIRED:

Co-Organizer, National Science Foundation Grantees Design and Manufacturing Conference, UT Austin, January, 1991
Program Chair, American Society of Mechanical Engineering Design Theory and Methodology Conference, 1995-1996
Conference Chair, American Society of Mechanical Engineering Design Theory and Methodology Conference, 1996-1997
Co-Organizer, National Science Foundation Workshop on Science and Engineering Innovation and Discovery, Divisions of Design, Manufacturing and Innovation and Social Behavior/Cognitive Psychology, Washington, DC, May 17-18, 2006
Co-Organizer, NSF & IC2 sponsored Workshop on Innovation and Discovery: Frontier Tools, December 2006
Co-Organizer, NSF CMMI Workshop – Discussion of Individual and Team-Based Innovation, January 2008
Organizer, NSF CCLI Workshop – Active Learning, August 2008
Organizer, ASEE Annual Conference Workshop – Active Learning, June 2009
Program Committee, co-Chair, 1st Asia-Pacific Conference on Complex Systems Design and Management (CSD&M Asia), Singapore, December 10-12, 2014

EDITORIAL BOARDS, ADVISORY BOARDS, NATIONAL COMMITTEES, SESSIONS CHAIRED:

- Moderator for the Feature Knowledge and Tools Panel, Feature-Based Design and Manufacturing Workshop, Sponsored By: The National Center for Manufacturing Sciences (NCMS) and Martin Marietta Energy Systems, Gatlinburg, TN, June, 1991
- Session Chairman: "SFF Techniques," Solid Freeform Fabrication Symposium, The University of Texas at Austin, August, 1991
- Vice President, Central Texas Chapter of the American Society of Mechanical Engineering, 1991-92
- National Science Foundation SBIR Panel Reviewer, Division of Engineering, Division of Design and Manufacturing, September, 1992
- Vice Chairman, Session DA-11, American Society of Mechanical Engineering Design Automation Conference, September, 1992
- Vice Chairman, "Solid and Geometric Modeling" Session, American Society of Mechanical Engineering Design Automation Conference, September, 1993
- National Science Foundation SBIR Panel Reviewer, Division of Engineering, Division of Design and Manufacturing, September, 1993
- Micromechanical Systems Session Chairman, DSC-5C, American Society of Mechanical Engineering Winter Annual Meeting, New Orleans, LA, November, 1993
- Paper Review Coordinator, American Society of Mechanical Engineering Design Theory and Methodology Conference, 1993-94
- Chairman, "Design Support Tools" Session, American Society of Mechanical Engineering Design Automation Conference, September, 1994
- Vice Chairman, "Design Quality and Tolerancing" Session DTM-1, American Society of Mechanical Engineering Design Theory and Methodology Conference, September, 1994
- National Science Foundation Unsolicited Proposals Panel Reviewer, Division of Engineering, Division of Design and Manufacturing, December, 1994
- Paper Review Coordinator, American Society of Mechanical Engineering Design Theory and Methodology Conference, 1995
- Invited Participant, National Science Foundation Strategic Workshop on Design Engineering, Arizona State University, Mesa, AZ, May, 1995
- Chairman, Session, American Society of Mechanical Engineering Design Theory and Methodology Conference, Boston, MA, September, 1995
- National Science Foundation Combined Research-Curriculum Review Panel, Engineering Education and Centers Division, November, 1996
- National Science Foundation Unsolicited Proposals Panel Reviewer, Division of Engineering, Division of Design and Manufacturing, May, 1997
- Chairman, Session, American Society of Mechanical Engineering Design Theory and Methodology Conference, Atlanta, GA, September, 1998
- National Science Foundation Unsolicited Proposals Panel Reviewer, Division of Engineering, Division of Design and Manufacturing, December, 1998
- National Science Foundation Unsolicited Proposals Panel Reviewer, Division of Engineering, Division of Design and Manufacturing, November, 1999
- Chairman, Session, American Society of Mechanical Engineering DETC Conferences, Las Vegas, NV, September, 1999
- National Science Foundation, CAREER Awards, Division of Engineering, Division of Design and Manufacturing, 2001

*Résumé – Curriculum Vitae**Kristin L. Wood, Ph.D.*

- Chairman, Session, American Society of Mechanical Engineering DETC Conferences, Baltimore, MD, September, 2000
- National Science Foundation Unsolicited Proposals Panel Reviewer, Division of Engineering, Division of Design and Manufacturing, April, 2001
- Chairman, Design Education Session, International Conference on Engineering Design, Glasgow, Scotland, August, 2001
- Chairman, Session, American Society of Mechanical Engineering DETC Conferences, Pittsburgh, PA, September 2001
- Panelist, American Society of Mechanical Engineering DETC Conferences, Pittsburgh, PA, September 2001
- National Science Foundation Unsolicited Proposals Panel Reviewer, Division of Engineering, Division of Design and Manufacturing, December, 2001
- National Science Foundation Unsolicited Proposals Panel Reviewer, Division of Engineering, Division of Design and Manufacturing, December, 2002
- Associate Editor, ASME Journal of Mechanical Design, July 2000-2004
- National Science Foundation Unsolicited Proposals Panel Reviewer, Division of Engineering, Division of Design and Manufacturing, April, 2003
- Co-Chairman, Session, International Design Theory and Methodology Conference, ASME, Chicago, Illinois, September 2003
- Panelist, National Science Foundation Director's Award for Distinguished Teaching Scholars (DTS) Program, December 2004
- Invited Panelist, UK Engineering and Physical Sciences Research Council (EPSRC) Innovative Manufacturing Research Centers, United Kingdom, January 2005
- Space Grant Review Panel, K-12 Educational Proposals, April 2005
- Invited Opponent, Dissertation of Katja Holtta-Otto, Helsinki University of Technology, Helsinki Finland, August 2005
- National Science Foundation CAREER Proposals Panel Reviewer, Division of Engineering, Division of Design and Manufacturing, November 2005
- Indo-US Science & Technology Forum, Bilateral Indo-US Workshop on Rapid Manufacturing, US Visiting Team, Bangalore, India, May, 2006
- Invited Panelist, Indo-US Science & Technology Forum, Workshop on Design Engineering, Bangalore, India, 5-7 January 2006
- Session Chair, Design Education II, Indo-US Science & Technology Forum, Workshop on Design Engineering, Bangalore, India, 5-7 January 2006
- Summary Panelist, UK Engineering and Physical Sciences Research Council (EPSRC) Innovative Manufacturing Research Centers, United Kingdom, January-February, 2006
- Space Grant Review Panel, K-12 Educational Proposals, April 2006
- Invited Panelist, UK Engineering and Physical Sciences Research Council (EPSRC) Innovative Manufacturing Research Center, Heriot Watt University, Scotland, United Kingdom, May 2-3, 2006
- Invited Participant, "Engineering Design in Technology Education Study," Sponsored by NSF, Summer 2006
- Session Co-Chairman, DTM-01: Innovations in Design Theory and Methods, 2006 ASME Design Theory and Methodology Conference, Philadelphia, PA, September 10-13, 2006
- Invited Panelist, "Intelligent Synthesis and Innovation," 2006 ASME Design Theory and Methodology Conference, Philadelphia, PA, September 10-13, 2006
- Summary Reviewer, UK Engineering and Physical Sciences Research Council (EPSRC) Innovative Manufacturing Research Centers, Benchmark Study, United Kingdom, Summer-Fall, 2006
- External Referee, National University of Singapore, Fall 2006

Résumé – Curriculum Vitae

Kristin L. Wood, Ph.D.

- National Science Foundation Unsolicited Proposals Panel Reviewer, Civil, Mechanical and Manufacturing Innovation Division, April 2007
- National Science Foundation Unsolicited Proposals Panel Reviewer, Division of Perception, Action, & Cognition, Spring 2007
- Paper Review Coordinator, American Society of Mechanical Engineering (ASME-DETC), International Design Theory and Methodology Conference, 2007
- Session Chairman, DTM-10: Creativity, Innovation, and Biological Models, 2007 ASME Design Theory and Methodology Conference, Las Vegas, NV, September 4-7, 2007
- Program Committee Member, International Conference on Engineering Design (ICED), 2007
- Paper Review Coordinator, American Society of Mechanical Engineering (ASME-DETC), International Design Theory and Methodology Conference, 2008
- Review Committee Panelist, Natural Sciences and Engineering Research Council of Canada (NSERC), Research Partnership Program, Review of Design Chair, Queen's University, Kingston, Canada, May 2008
- Panelist, Invited, "Connecting Environmental Intelligence in Product Design to Customer Impact," *Achieving Customer Impact by Balancing Environmental Intelligence, Supply Chain Optimization and Product Design Symposium*, McCombs Center for Customer Insight and Marketing Solutions, UT-Austin, May 2008
- National Science Foundation CreativeIT Panel Review, December 2008
- External Panel, Site Visit Queen's University Design Chair, NSERC/CRSNG, Canada, 2008
- National Science Foundation CMMI, Design Unsolicited Proposals, Panel Review, April 2009
- Program Committee Member, International Conference on Engineering Design (ICED), San Francisco, 2009
- Session Chair, DFMLC-4-3 Sustainable Design, Environmental Analysis of Emerging Technologies, Cost Estimation & Total Cost of Ownership, 15th Design for Manufacturing and the Lifecycle Conference (DFMLC), ASME International Design Technical Conferences (IDETC), August 2010
- Program Committee Member, International Conference on Engineering Design (ICED), Copenhagen, Denmark, 2011
- National Science Foundation Unsolicited Proposals Panel Reviewer, Civil, Mechanical and Manufacturing Innovation Division, May 2011
- Scientific Advisory Board, 12th International Design Conference DESIGN 2012, Cavtat, Dubrovnik County, Croatia
- National Research Foundation (NRF) of Singapore, Local Evaluation Panel (LEP) for the Singapore NRF Fellowship, September 2012
- Advisory Board, Fifth International Conference on Design Computing and Cognition (DCC'12), Texas A&M University, College Station, Texas, 7-9 June 2012
- Moderator, Global Young Scientist Summit, Nobel Laureate Session, Singapore Science Centre, January 2013
- Asian Liaison Committee, International Conference on Engineering Design (ICED), Seoul, Korea, August 2013
- TechX Challenge 2013 – Create the Urban Robot, Defence Science and Technology Agency (DSTA), June 2013
- Chair, Session "S07: (Discussion) DX_D1 Design for X (tolerance, affordance, manufacture, adaptability)," International Conference on Engineering Design (ICED), Seoul, Korea, August 2013
- Steering Committee, Design Engineering Workshop 2013, Kitakyushu, Fukuoka, Japan, November 28 – 30, 2013
- Chair, Session 5: Design Theory, *Six International Conference on Design Cognition and Computing*, London, June 23-25, 2014

Résumé – Curriculum Vitae

Kristin L. Wood, Ph.D.

Co-Chair, DTM-6-1 Designer Behavior and Affordance (Technical Session), International Design Engineering Technical Conferences (IDETC), Buffalo, NY, August 17-20, 2014
Steering Committee, Asia Design Engineering Workshop (ADEWS) 2014, Taipei, Taiwan, November 20 – 22, 2014
Asia Design Engineering Workshop (ADEWS) Award Committee, 2014
Chair, Program Committee of the Conference on Complex Systems Design and Management (CSD&M) Asia, December 2014
Project Referee, *Knowledge-building Projects for Industry*, Research Council of Norway, 2014
Chair, Keynote Session, “Global Trends on Sports Science Contribution to Elite Sports” by A/Prof Iñigo Mujika (University of the Basque Country, Spain), SSI Annual Symposium 2014
Opening Address, “Making Sense: Intersecting Lines of Investigation in Design and Technology,” Exhibition, National Design Centre, Singapore, November 11, 2014
Inaugural Steering Committee, Asia Chapter of the Design Society, 2014-Present
Associate Editor, *Journal of Engineering Design*, 2014-Present
Editorial Board, Associate Editor, *Design Science Journal*, 2014-Present
Steering Committee, Singapore Ministry of Education, A-Level Science Education, 2013-Present
Singapore Sports Institute (SSI), Science & Technology Advisory Board, Member, 2013-Present
SMRT's Technical Advisory Panel (TAP), Member, 2013-Present
Editorial Board of the *International Journal of Product Development* (IJPD), Inter-science Publishers, 2002-Present

OTHER PROFESSIONAL EXPERIENCE:

Colorado Department of Highways, Engineering Aid A, Summer 1982 and 1983
Colorado Department of Highways, Engineering Aid B, Summer and Fall, 1984
CCAE (Center for Computer Assisted Engineering), College of Engineering, Colorado State University, Lab Monitor, 1984-85
Digital Equipment Corporation, Technical Engineering and Computing Support, Summer, 1985
IBM Austin, ECAT Facility, Mfg. Engineer and Design Project Director, June 1992 to September 1993
National Technological University Broadcast, “Discover Engineering! Welcome to the Real World,” Host, Chicago, IL, February 1996, with Dr. Sherri Sheppard, Mike Jackson, and a five person engineering panel
National Technological University Broadcast, “Discover Engineering: Engineers Make a World of Difference,” Host, Chicago, IL, February, 1997, with Dr. Sherri Sheppard and a panel of seven members
National Technological University Broadcast, “Engineers Turning Ideas into Reality: Breaking through the Creative Engineer,” Host, Chicago, IL, February, 1998, with Dr. Patricia Davies and a panel of seven members
National Technological University Broadcast, “Engineers Turning Ideas into Reality,” Host, Chicago, IL, February, 1999, with Dr. Patricia Davies and a panel of five prominent engineers

OTHER PROFESSIONAL HIGHLIGHTS:

1988-Present, Technical Reviewer:
ASME Journal of Mechanical Design
Journal of Research in Engineering Design
ASME Journal of Engineering for Industry
Journal of Intelligent Manufacturing Systems
Journal of Systems Automation: Rsch. and Appl.

Résumé – Curriculum Vitae

Kristin L. Wood, Ph.D.

Lubrication Engineering
Tribology Transactions
ASME Design Theory and Methodology Conference
ASME Design Automation Conference
ASME Computers in Engineering Conference
ASME Winter Annual Meeting (WAM) Conference
Journal of AI EDAM (Artificial Intelligence in Engineering Design and Manufacturing)
ACM Solid Modeling Conference
Journal of Computer Aided Design
Concurrent Engineering: Research and Applications Journal
SME Journal of Manufacturing Systems
ASM Handbooks
ASME Journal of System Dynamics
ASEE Journal of Engineering Education
ASEE Annual Conference
International Journal of Product Development
ASME Transactions, Journal of Computing and Information Science in Engineering
SME Journal of Manufacturing Processes
Journal of Engineering Design (UK)
International Conference on Engineering Design (ICED)
Journal of Dynamic Systems and Control
International Journal of Engineering Education
Mechatronics Journal
Design Studies Journal
Undergraduate Research Journal (URJ)
Journal of Design Creativity and Innovation

COLLEGE / PILLAR COMMITTEES:

Member, College of Engineering Manufacturing Systems Engineering Thrust Area Committee, 1991-1992
Member, College of Engineering Manufacturing Systems Engineering Chair Recruiting, 1992
Member, Manufacturing Steering Committee, College of Engineering, 1994
Member, Chairman's Evaluation Committee, College of Engineering, Dept. of Mechanical Engineering, 1994
Member, Lockheed Martin Award Review Committee, College of Engineering, 2003-2004
Chairman, Lockheed Martin Award Review Committee, College of Engineering, 2005
Member, Distinguished Teaching Professors Committee, Cockrell School of Engineering, 2003-2012
Member, K-12 Strategic Planning Committee, Cockrell School of Engineering, 2006-2012
Member, Strategic Master Plan Workshops, Cockrell School of Engineering, 2009
Member, Cockrell School Promotions and Tenure Committee, Cockrell School of Engineering, 2009-2011
Member, Engineering Education Research Center Committee, Cockrell School of Engineering, 2010
Chair, Interdisciplinary Teaching Committee, Cockrell School of Engineering, 2010-2011
Chair, SUTD EPD Pillar Faculty Recruiting Committee, 2011-Present
Member, SUTD EHS Management Committee, 2012-Present

Résumé – Curriculum Vitae

Kristin L. Wood, Ph.D.

DEPARTMENT COMMITTEES:

Member, Mechanical Engineering Design Sequence Committee, 1989-1990
Member, Mechanical Engineering Computational Facilities for Design Committee, 1990-1991
Member, Byron Short Lecture Series, Mechanical Engineering, 1990-1991
Member, Graduate Student Recruiting and Fellowship Selection Committee, Dept. of Mechanical Engineering, 1990-1992 and 1993-1996
Member, Mechanical Systems and Design Ph.D. Qualifying Exam Review Committee, 1990-1991
Member, Long Range Planning Committee, Dept. of Mechanical Engineering, 1991-1992
Member, Mechanical Systems and Design Qualifying Exam Committee, 1996-1997
Member, Dept. of Mechanical Engineering Curriculum Reform Working Group, 1996-1997
Member, Dept. of Mechanical Engineering Safety Committee, 1998-1999
Member, Dept. of Mechanical Engineering Laboratory Space Committee, 1998-2001
Member, Dept. of Mechanical Engineering Faculty Recruiting Committee, 1998-2000
Chair, Mechanical Systems and Design Faculty Recruiting Committee, 1999-2001
Mechanical Systems and Design Area Coordinator, Fall 2001-2004
Director, Laboratory for Freeform Fabrication, Fall 2002-2007
Member, Dept. of Mechanical Engineering Faculty Recruiting Committee, Advanced Manufacturing, 2006-2007
Manufacturing and Design Area Coordinator, Fall 2004-2007
Member, Web Committee, Department of Mechanical Engineering, 2006
Performance Review Committee (Special Committee for ME Chairman), Dept. of Mechanical Engineering, 2005-2012
Budget Council, Department of Mechanical Engineering, 2001-2012
Chairman, Awards Committee, Department of Mechanical Engineering, 2004-2008
Post Tenure Review Committee, Member, Dept. of Mechanical Engineering, 2009-2010
Member, Department-Wide PhD Qualifier Exam Committee, 2008-2012

UNIVERSITY COMMITTEES/ADMINISTRATIVE ASSIGNMENTS:

Member, University of Texas Faculty Senate, 1993-95
Member, University Advisory Committee, Vice President Livingston, Chairman, 1993
Member, University Retention Committee, 1994
Member, University Research Policy Committee, 2005-2007
Member, Academy of University Distinguished Teaching Professors, 2003-2012
Member, Editorial Board, *UT Undergraduate Research Journal*, 2005-2012
Member, Piper Professor Award Selection Committee, 2011-2012
Chair, Working Committee on Tenure Policies, SUTD, 2011-Present
Member, SUTD EHS Safety Committee, 2011-Present
Member, SUTD Faculty Recruiting / Campus Visit Committee, 2011-Present
Member, SUTD Academic Space Committee, 2012-Present
Member, Senior Management Committee, 2011-Present
Member, Senior Academic Leadership Committee, 2012-Present
Member, BOT-SUTD Undergraduate Program Strategy Committee, 2013-Present

PUBLICATIONS:**A. Refereed Archival Journals (80)**

1. Wood, K.L., and Antonsson, E.K., "Computations with Imprecise Parameters in Engineering Design: Background and Theory," *ASME Journal of Mechanisms, Transmissions, and Automation in Design*, Vol. 111, No. 4, pp. 616-625, 1989. (Note: First paper accepted in the area of DTM)
2. Wood, K.L., and Antonsson, E.K., "Modeling Imprecision and Uncertainty in Preliminary Engineering Design," *International Journal of Mechanism and Machine Theory*, Theories of Design - Applications to the Design of Machines, Vol. 25, No. 3, pp. 305-324, 1990.
3. Wood, K.L., Antonsson, E.K., and Beck, J.L., "Representing Imprecision in Engineering Design - Comparing Fuzzy and Probability Calculus," *Journal of Research in Engineering Design*, Springer-Verlag, Vol. 1, No. 3/4, pp. 187-203, 1990.
4. da Silva, R.E., Wood, K.L., and Beaman, J.J., "Interacting and Interfeature Relationships in Engineering Design for Manufacture," *International Journal of Systems Automation: Research and Applications*, Vol. 1, No. 3, pp. 263-286, 1991.
5. Wood, K.L., Otto, K.N., and Antonsson, E.K., "Engineering Design Calculations with Fuzzy Parameters," *International Journal of Fuzzy Sets and Systems*, Vol. 52, No. 1, pp. 1-20, 1992.
6. Ratliff, R. Wood, K. L. Crawford, R. H., "Modeling of Vertical Centrifugal Pumps," *Simulation Series Journal*, Society for Computer Simulation (SCS), Vol. 25, No. 2, p. 269, 1993.
7. Crawford, R.H., Wood, K.L., Fowler, M., and Norrell, J., "An Engineering Design Curriculum for the Elementary Grades," *ASEE Journal of Engineering Education*, Vol. 83, No. 2, pp. 172-181, 1994.
8. Cavin, R., Bowen, S.O., Wood, K.L., Crawford, R.H., Ratliff, R., and Sumrell, C., "A Probe Accuracy Inspection Tool for ICT Fixtures Using PCB Artwork," Disclosure No. AT8930378, *IBM Invention Disclosure Bulletin*, Vol. 37, pp. 415-418, 1994.
9. Cavin, R., Wood, K.L., Crawford, R.H., Ratliff, R., and Sumrell, C., "An Optical-Artwork Inspection Tool for Probe Accuracy of ICT Fixtures," *Journal of Surface Mount Technology*, Vol. 7, No. 1, pp. 28-41, 1994.
10. Srinivasan, R.S. and Wood, K.L., "Geometric Tolerancing in Mechanical Design Using Fractal-Based Parameters," *ASME Journal of Mechanical Design*, Vol. 117, No. 1, pp. 203-205, 1995.
11. Fowler, M., Crawford, R., Wood, K.L., and Jones, J., "Springs: Potential and Kinetic Energy/Force," *Connect*, Teachers' Laboratory, Inc., Vol. 8, No. 5, pp. 8-11, 1995.
12. Tumer, I.Y., Srinivasan, R.S., and Wood, K.L., "Investigation of Characteristic Measures for the Analysis and Synthesis of Precision-Machined Surfaces," *SME Journal of Manufacturing Systems*, Vol. 14, No. 5, pp. 378-392, 1995.

Résumé – Curriculum Vitae

Kristin L. Wood, Ph.D.

13. Srinivasan, R.S., Wood, K.L., and McAdams, D., "Functional Tolerancing: A Design for Manufacturing Methodology," *Journal of Research in Engineering Design*, Vol. 8, No. 2, pp. 99-115, 1996.
14. Srinivasan, R.S. and Wood, K.L., "A Form Tolerancing Theory Using Fractals and Wavelets," *ASME Journal of Mechanical Design*, Vol. 119, No. 2, pp. 185-193, 1997.
15. Koeneman, P., Busch-Vishniac, I. and Wood, K.L., "Feasibility of Micro Power Supplies for MEMS," *IEEE Journal of Microelectromechanical Systems*, Vol. 6, No. 4, pp. 355-362, 1997.
16. Turner, I., Thompson, D., Wood, K.L., and Crawford, R. "Characterization of Surface Fault Patterns with Application to a Layered Manufacturing Process," *SME Journal of Manufacturing Systems*, Vol. 17, No. 1, pp. 23-36, 1998.
17. Wood, K.L., Neikirk, D., Busch-Vishniac, I., Weldon, W., Chu, C.-S., Kim, Y., Gupta, V., Maddox, W., and Masser, D., "MEMs Hydrodynamic Bearings: Applications and Implications to Machine Failure Prevention," *Journal of Tribotest*, Leaf Coppin Publishing, Vol. 4, No. 3, pp. 275-288, 1998.
18. Srinivasan, R.S. and Wood, K.L., "Complexity in Metal Cutting and Fractality of Machined Surfaces," *International Journal for Manufacturing Science and Production*, CIRP, Vol. 1, No. 3, pp. 199-208, 1998.
19. Cho, U., Wood, K.L., and Crawford, R.H., "On-Line Functional Testing with Rapid Prototypes: A Novel Empirical Similarity Method," *International Rapid Prototyping Journal*, Vol. 4, No. 3, pp. 128-138, 1998.
20. Chu, C. S., Wood, K. L., and Busch-Vishniac, I.J., "Nonlinear Dynamic Modeling with Confidence Bounds of Hydrodynamic Bearings," *ASME Journal of Tribology*, Vol. 120, pp. 595-604, 1998.
21. Otto, K. and Wood, K.L., "A Reverse Engineering and Redesign Methodology," *Journal of Research in Engineering Design*, Vol. 10, No. 4, pp. 226-243, 1998.
22. McAdams, D. A., Stone, R. B., and Wood, K. L., "Functional Interdependence and Product Similarity Based on Customer Needs," *Journal of Research in Engineering Design*, Vol. 11, No. 1, pp. 1-19, 1999.
23. Otto, K. N. and Wood, K. L., "Customer Integrated Systematic Design," *Society of Design and Process Science (SDPS) Transactions, Journal of Integrated Design and Process Science*, 1999.
24. Otto, K. and Wood, K., "Designing the Design Course Sequence," *Mechanical Engineering — Premiere Issue on Design*, pp. 39-42, ASME, November, 1999.
25. Stone, R. B., Wood, K. L., and Crawford, R. H., "A Heuristic Method to Identify Modules from a Functional Description of a Product," *Journal of Design Studies*, Vol. 21, No. 1, pp. 5-31, January 2000.
26. Baroud, C., Busch-Vishniac, I., and Wood, K., "Induced Micro Variations in Hydrodynamic Bearings," *Journal of Tribology*, Vol. 122, pp. 585-589, 2000.
27. Turner, I. Y., Wood, K. L., and Busch-Vishniac, I. J., "A Mathematical Transform to Analyze Part Surface Quality in Manufacturing," *ASME Journal of Manufacturing Science and Engineering*, Vol. 122, pp. 273-279, 2000.

28. Turner, I. Y., Longoria, R. G., and Wood, K. L., "Analysis and Monitoring of Hydrodynamic Forces Using the Karhunen-Loeve Transform," *ASME Journal of Offshore Mechanics and Arctic Engineering*, Vol. 122, pp. 208-213, 2000.
29. Stone, R. B., Wood, K. L., and Crawford, R. H., "Using Quantitative Functional Models to Develop Product Architectures," *Journal of Design Studies*, Vol. 21, No. 3, 2000, pp. 239-260.
30. Turner, I. Y., Wood, K. L., and Busch-Vishniac, I. J., "Monitoring of Signals from Manufacturing Processes Using the Karhunen-Loeve Transform," *Journal of Mechanical Systems and Signal Processing*, Vol. 14, No. 6, Academic Press, pp. 1011-1026, 2000.
31. McAdams, D. and Wood, K., "Tuning Parameter Tolerance Design: Foundations, Methods, and Measures," *Journal of Research in Engineering Design*, Vol. 12, No. 3, 2000, pp. 152-162.
32. Stone, R. B. and Wood, K. L., "Development of a Functional Basis for Design," *ASME Journal of Mechanical Design*, Vol. 122, No. 4, 2000, pp. 359-370.
33. Norrell, J., Wood, K. L., and Crawford, R. H., "In-Bed Rapid Prototyping Meta-structures: A Study of Thermal Effects," *International Rapid Prototyping Journal*, 2001.
34. Wood, K. L., Jensen, D. D., Otto, K. N., and Bezdek, J., "Reverse Engineering and Redesign: Courses to Incrementally and Systematically Teach Design," *ASEE Journal of Engineering Education*, Vol. 90, No. 3, July 2001, pp. 363-374.
35. McAdams, D. and Wood, K., "A Quantitative Similarity Metric for Design by Analogy," *ASME Journal of Mechanical Design*, Vol. 124, No. 2, June 2002, pp. 173-182.
36. Hirtz, J., Stone, R., McAdams, D., Szykman, S., and Wood, K., "A Functional Basis for Engineering Design: Reconciling and Evolving Previous Efforts," *Journal of Research in Engineering Design*, Vol. 13, No. 2, March 2002, pp. 65-82.
37. Dutson, A. J., Wood, K. L., Beaman, J. J., Crawford, R. H., and Bourell, D. L. "Application of Similitude Techniques to Functional Testing of Rapid Prototypes," *Rapid Prototyping Journal*, Vol. 9, No. 1, pp. 6-13, 2003.
38. Jensen, D., Wood, K. L., And Wood, J., "Hands-on Activities, Interactive Multimedia and Improved Team Dynamics for Enhancing Mechanical Engineering Curricula," *International Journal of Engineering Education*, Vol. 19, No. 6, pp. 874-884, 2003.
39. Kurfman, M., Stock, M. E., Stone, R. B. Rajan, J., and Wood, K. L., "Experimental Studies Assessing the Repeatability of a Functional Modeling Derivation Method," *ASME Journal of Mechanical Design*, Vol. 125, No. 4, December 2003, pp. 682-693.
40. Mignatti, M. A., Campbell, M. I., Ruizpalacios, R., and Wood, K. L., "Characterization of a Novel Low-Cost, Direct-Write Waveguide," *Rapid Prototyping Journal*, Vol. 10, No. 1, 2004, pp. 50-57.

41. Greer, J., Jensen, D. and Wood, K., "Effort Flow Analysis: A Methodology for Directed Product Evolution," *Journal of Design Studies*, Vol. 25, No. 2, 2004, pp. 103-214.
42. Wood, J., Campbell, M., Wood, K.L., and Jensen, D., "Enhancing Machine Design by Creating a Basic Hands-On Environment with Mechanical Breadboards," *International Journal of Mechanical Engineering Education*, Vol. 33, No. 1, January 2005, pp. 1-25.
43. Cho, U., Dutson, A., Wood, K.L., and Crawford, R.H., "An Advanced Method to Correlate Systems with Distorted Configurations for Agile Product Tests," *ASME Journal of Mechanical Design*, Vol. 127, No. 1, January 2005, pp. 78-85.
44. Rajan, P., Van Wie, M., Wood, K.L., and Campbell, M., "An empirical foundation for product flexibility," *Design Studies*, Vol. 26, No. 3, 2005.
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E. Reviews

Fundamentals of Engineering Design, Barry Hyman, Prentice Hall, Simon & Schuster Higher Education Group.

F. Technical Reports (3)

Wood, K.L., Crawford, R.H., Cavin, R., and Sumrell, C., "An Approach for Debugging Probe-Pin Misalignment of ICT Fixtures," *IBM Technical Report 51.0736*, IBM Austin ECAT Facility, 1992.

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Schunn, C., Paulus, P., Cagan, J., and Wood, K.L., "Final Report from the NSF Innovation and Discovery Workshop: The Scientific Basis of Individual and Team Innovation and Discovery," National Science Foundation, August 2006. <http://www.lrdc.pitt.edu/schunn/innov2006/talks/I+Dreport-final.pdf>.

ORAL PRESENTATIONS:

Invited or Keynote Speeches (129)

1. Wood, K.L., "Engineering Design: Descriptions, Uncertainties, and Manufacturing," Invited Presentation at GE Corporate Research, Schenectady, NY, May, 1991.
2. Wood, K.L. and Crawford, R.H., "The Importance of Spatial Relationships in Feature-Based Design: Formal Languages, Query Processing, and Set-Based Reasoning," Invited Presentation, Feature-Based Design and Manufacturing Workshop, Sponsored By: *The National Center for Manufacturing Sciences* (NCMS) and Martin Marietta Energy Systems, Gatlinburg, TN, June, 1991.
3. Wood, K.L., "Fractal Abstractions of Design Tolerances and Manufacturing Process Precision," Invited Presentation: *Third SIAM Conference on Geometric Design*, Phoenix, AZ, November, 1993.
4. Wood, K.L., "Fractal-Based Geometric Tolerancing: Navigating the Manufacturing Jungle," Invited Presentation, University of California at Irvine, Department of Mechanical Engineering, January, 1995.
5. Wood, K.L. and Crawford, R.H., "An Engineering Design Curriculum for the Elementary Grades," Invited Presentation: Alamo Chapter of the American Society of Heating, Refrigeration, and Air Conditioning Engineering, San Antonio, TX, April, 1995.
6. Busch-Vishniac, I., Wood, K.L., Neikirk, D., and Weldon, W., "Hydrodynamic Bearing Applications with MEMs," Invited Presentation, *International Congress and Exposition, Micromechanical Systems Symposium*, San Francisco, CA, November, 1995.
7. Wood, K.L., "The Frontiers of Geometric Abstractions in Engineering Design," Invited Presentation, The University of Houston, Houston, TX, October, 1995.
8. Sheppard, S. and Wood, K.L., "Discover Engineering! Welcome to the Real World," Invited Presentation, National Technological University Broadcast, Chicago, IL, February, 1996.
9. Wood, K.L., "MEMs Hydrodynamic Bearings: Applications and Implications to Machine Failure Prevention," Invited Presentation, *MFPT Conference*, Mobile, AL, April, 1996.
10. Wood, K.L., "Basic Frontiers in Product Design: Functional Analysis, Assemblability, and Redesign," Invited Presentation, Carnegie Mellon University, Department of Mechanical Engineering, November, 1996.
11. Wood, K.L., "Functional Analysis and Redesign," Invited Presentation, United States Air Force Academy, Department of Engineering Mechanics, Colorado Springs, CO, January, 1997.

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12. Sheppard, S. and Wood, K.L., "Discover Engineering: Engineers Make a World of Difference," Invited Presentation, National Technological University Broadcast, Chicago, IL, February 1997.
13. Wood, K.L., "Attracting the Next Generation of Engineers," Invited Presentation, Structural Engineering Education Reunion (STEER 97), Austin, TX, May, 1997.
14. Wood, K.L., "Machine Monitoring," Invited Panel, ASME Vibrations Conference, Sacramento, CA, September, 1997.
15. Wood, K.L. and Davies, P., "Discover Engineering: Turning Ideas into Reality," Invited Presentation, National Technological University Broadcast, Chicago, IL, February, 1998.
16. Wood, K.L., "Product Development for Small-Medium Scale Systems," Invited Presentation, United States Air Force Academy, Department of Engineering Mechanics, Colorado Springs, CO, May, 1998.
17. Wood, K.L., "VP Debrief," Invited Presentation, United States Air Force Academy, Department of Engineering Mechanics, Colorado Springs, CO, May 1998.
18. Wood, K.L., Mobility Design Symposium, Invited Presentation, Austin Technology Incubator, Moderator, July 1998.
19. Wood, K.L., "A Spectrum of Participation: Reverse Engineering to Industrial Product Development," *ASME DTM Conference Invited Panel: Industrial Participation in Design Education*, Atlanta, GA, September 1998.
20. Wood, K.L., "Hands-on Instruction and Learning Styles: Focus on ME338, Machine Elements," *Visiting Committee Presentation*, UT Department of Mechanical Engineering, October 1998.
21. Wood, K.L., "Robustness in Product Design and Development," Invited Presentation, *Quality Symposium, Texas A&M*, November 1998.
22. Wood, K.L. and Davies, P., "Discover Engineering: Turning Ideas into Reality," Invited Presentation, *National Technological University Live Broadcast*, Chicago, IL, February 1999.
23. Wood K. L., "Frontiers in Engineering Design: Research and Education," Invited Presentation, *WDK Design Society Workshop*, Rigi, Switzerland, March 23, 2000.
24. Wood, K. L., "Status of ASME DTM: An Analysis of Historical Research Trends," *ASME DTM Conference*, Invited Panel, Baltimore, MD, September 2000.
25. Wood, K. L., "Product Architecture: New Frontiers in Solid Freeform Fabrication Research," Invited Presentation, *University of Missouri, Rolla*, November 2, 2000.
26. Wood, K.L., "Frontiers in Engineering Education: Learning Styles, Hands-On Activities, and Reverse Engineering," Invited Presentation, *University of Missouri, Rolla*, November 2, 2000.
27. Jensen, D.L., and Wood, K.L., 2000, "Incorporating Learning Styles to Enhance Mechanical Engineering Curricula by Restructuring Courses, Increasing Hands-on Activities, & Improving Team Dynamics,"

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- Invited Presentation, *2000 ASME International Mechanical Engineering Congress and Expo.*, Mechanical Engineering Technology Department Heads Meeting, Nov. 5, 2000, Orlando, FL.
28. Jensen, D.L., and Wood, K.L., 2000, "Incorporating Learning Styles to Enhance Mechanical Engineering Curricula by Restructuring Courses, Increasing Hands-on Activities, & Improving Team Dynamics," Invited Presentation, *2000 ASME International Mechanical Engineering Congress and Expo.*, Mechanical Engineering Department Heads Meeting, Nov. 7, 2000, Orlando, FL.
29. Wood, K. L., "UT Manufacturing and Design Laboratory: Product Architecture and Functional Prototyping Research," Invited Presentation, Schlumberger, Houston, TX, December 6, 2000.
30. Wood, K. L., "Communication and Cooperation: Reality and Vision," Invited Presentation, *Design Society*, Rigi, Switzerland, March 2001.
31. Wood, K. L., "Design Researchers Reflect on How Their Design Research Affects Their Teaching," *ASME DTM Conference, Invited Panel*, Pittsburgh, PA, September 2001.
32. Wood, K. L., "Globalization of Design Community," *ASME DTM Conference, Invited Panel*, Pittsburgh, PA, September 2001.
33. Wood, K. L., "Functional Modeling for Product Development," Invited Presentation, *Carnegie Mellon University*, Pittsburgh, PA, September 2001.
34. Wood, K. L., "Learning Styles in Engineering Education," Invited Presentation, *UT Brown Bag Seminar Series*, October 9, 2001.
35. Wood, K. L., "New Frontiers in Product Architecture and Solid Freeform Fabrication," Invited Presentation, *Texas A&M Industrial Engineering Seminar Series*, Invited Presentation, November 5, 2001.
36. Wood, K. L., "The State of Mechanical Engineering Design Education and ABET 2000: Views from industry and Academia," Invited Presentation, *ASME IMECE 2001*, Invited Panel, New York, November 11-14, 2001.
37. Wood, K. L., "New Frontiers in Product Architecture and Solid Freeform Fabrication," Invited Presentation, *Louisiana State University Mechanical Engineering Seminar Series*, Invited Presentation, February 22, 2002.
38. Wood, K. L., "Welcome and Learning Styles Icebreaker," Invited Presentation, *UT New Faculty Orientation*, UT Austin, August 21, 2002.
39. Wood, K. L., "PROCEED, Product Architecture, & The Next Generation of Solid Freeform Fabrication," Invited Presentation, Raytheon Corp., Dallas, TX, September 5, 2002.
40. Wood, K. L., "The Next Generation of Solid Freeform Fabrication and Product Architecture Research," Invited Presentation, *Engineering Honors Seminar*, UT Austin, September 14, 2002.

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41. Wood, K. L., "Active Learning Approaches in Technical Education: Learning Styles and Hands-On Activities," Invited Presentation, *EFAC (Engineering Foundation Advisory Committee)*, UT Austin, September 21, 2002.
42. Wood, K. L. and Schmidt, P., "Innovative Teaching Methods," Invited Presentation, *College of Engineering, Semester Meeting*, UT Austin, October 11, 2002.
43. Wood, K. L., "Foundations and Applications of the Empirical Similitude Method (ESM)," *5th International Workshop on Similarity Methods*, Keynote Presentation, Stuttgart, Germany, November 4-5, 2002.
44. Wood, K. L., "UT Mechanical Engineering: The Next Generation of Solid Freeform Fabrication," Invited Presentation, *UT High School Visitors Seminar*, February 2003.
45. Wood, K. L., "Review of New Systems Engineering and Design Program," Invited Presentation, *University of Missouri at Rolla*, June 2, 2003.
46. Wood, K. L., "Exploring the Fascinating World of Machines," Invited Presentation, *UT Honors Colloquium*, July 2003.
47. Joseph J. Beaman, Rodrigo Ruizpalacios, and Kristin L. Wood, "Direct Write of Optical Components," Invited Presentation, *2004 Materials Research Society Fall Meeting*, Boston, MA, November 29-30, 2004.
48. Wood, K. L., "Flexible UAV Transformers," Invited Presentation, *Eglin Air Force Research Laboratories*, February, 2005.
49. Wood, K. L., "Teaching Automation and Control in Elementary Grades: ROBOLAB and DTEACH," Invited Presentation, *San Diego Regional Economic Development Corporation and Angelou Economics*, April 14, 2005.
50. Crawford, R. H. and Wood, K. L., "DTEACH Curriculum with ROBOLAB Integration," Invited Presentation, *National Instruments Annual Conference*, Austin, TX, August 2005.
51. Ajetunmobi, A., Green, M. G., Seepersad, C. C., Crawford, R. H., and Wood, K. L., "Ajetunmobi, A., Green, M. G., Seepersad, C. C., Crawford, R. H., and Wood, K. L.," Invited Presentation, *ESW 2005 National Conference*, Austin, TX, October 5-9, 2005.
52. Singh, V., Skiles, S., and Wood, K. L., "Principles of Design Transformers: Applications to Unmanned Aerial Vehicles," Invited Presentation, *United States Air Force Academy*, October 5, 2005.
53. Wood, K. L., "Design Flexibility and Agile Product Development: Inferences on Design Education and Industrial Practice," Invited Presentation, *Indo-US Joint Workshop on Design Engineering*, Bangalore, India, January 5, 2006.
54. Wood, K. L., "Engaging Your Students: Successful Motivation (and Learning) Approaches," Invited Presentation, *2006 Teaching and Learning Colloquium*, UT Austin, January 10, 2006.

55. Wood, K.L. and Crawford, R.H., "Interdisciplinary Design of an Induction Tool Calibration System," Schlumberger, January 20, 2006.
56. Crawford, R.H. and Wood, K.L., "Frontiers in Teaching Interdisciplinary Engineering Design," *College of Engineering Faculty Innovation Seminar*, UT Austin, January 27, 2006.
57. Singh, V., Skiles, S., Krager, J., and Wood, K. L., "Innovations in Design Transformers," Invited Presentation, *United States Air Force Academy*, February 14, 2006.
58. Seepersad, C.S., Wortman, M., and Wood, K. L., "Innovative Approach to Product Flexibility," Invited Presentation, *Schlumberger*, Sugarland, TX, February 23, 2006.
59. Wood, K.L., "The Engaged Classroom: Distinguished Teaching Faculty Share What Works," *Collaborative for Instructional Impact (CII) Monthly Seminar*, March 8, 2006.
60. Jensen, D. and Wood, K. L., "UAV's and Design Transformers," Invited Presentation, *United States Air Force Academy*, April 25, 2006.
61. Wood, K.L., "Empirical Studies of Collaborative and Analogical Product Design: Implications on Innovation and Discovery," Invited Presentation, NSF Workshop on Science and Engineering Innovation and Discovery, Washington, DC, May 17-18, 2006.
62. Jensen, D. and Wood, K.L., "Briefing on USAFA Cadet Results: Design Transformer Applied to MAVs," Air Force Research Laboratory (AFRL), Invited Presentation, Eglin Air Force Base, May 23, 2006.
63. Skiles, S., Krager, J., Singh, V., Jensen, D., and Wood, K.L., "A Theory for Transformers: Principles and Design Methodology," Invited Presentation, Air Force Research Laboratory (AFRL), Eglin Air Force Base, May 23, 2006.
64. Wood, K.L., "Design for the Environment (DFE): The Role of Industrial Ecology Framework," Invited Presentation, Texas State University, San Marcos, TX, July 20, 2006.
65. Wood, K.L., "Function-Based Synthesis, Collaborative Innovation, and Design-by-Analogy," Invited Panel: Intelligent Synthesis and Innovation, *ASME International Design Theory and Methodology Conference*, Philadelphia, PA, September 12, 2006.
66. Jensen, D.J., Wood, K.L., et al., "Innovative Transformation Design Theory," Invited Presentation, *MAV06 Conference*, Eglin Air Force Base, Eglin, Fl, October 31, 2006.
67. Singh, V., Wood, K. L., and Jensen, D., "A Novel Exploration into Gust Resistant Operation of MAVs / UAVs through Transformation," Invited Presentation, *MAV06 Conference*, Eglin Air Force Base, Eglin, Fl, October 31, 2006.
68. Wood, K.L. and Jensen, D., "Innovative Methods for Ideation: Design-by-Analogy, Collaborative Design, and Product Flexibility," Kirtland AFRL, Albuquerque, NM, November 21, 2006.
69. Wood, K.L. and Jensen, D., "Innovative Design Approaches: Design for tRaNsFoRmAtIoN & Design by Analogy," Kirtland AFRL, Albuquerque, NM, November 21, 2006.

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70. Wood, K.L. and Linsey, J., "Hands-On Learning: Methodology for Hands-on Active Learning Activities," Invited Presentation, *College of Engineering Faculty Innovation Seminar*, UT Austin, December 4, 2006.
71. Wood, K.L. and Jensen, D.J., "Innovative Design Approaches: Design for tRaNsFoRmAtIoN and Design by Analogy," Invited Presentation, *Workshop on Innovation Tools*, Sponsored by IC2 and NSF, The University of Texas, Renaissance Hotel, December 7-9, 2006.
72. Crawford, R., Schmidt, P., Allen, D., and Wood, K. L., "Engineering the Future: Energy, Powering Up the Next Generation," Invited Presentation, Exxon-Mobile Foundation, Dallas, TX, February 20, 2007.
73. Wood, K. L., "Engineering Innovation: Design-by-Analogy and Design for tRaNsFoRmAtIoN," Invited Presentation, University of California at Riverside, April 20, 2007.
74. Singh, V., Jensen, D., Wood, K. L., "Design for tRaNsFoRmAtIoN: Theory, Method and Application," Invited Presentation, Eglin Air Force Base, Eglin, Fl, May 14, 2007.
75. Wood, K. L., "Innovations in Manufacturing," MURI Kickoff Meeting, National Science Foundation, Washington, DC, June 26, 2007.
76. Wood, K. L., "Design for tRaNsFoRmAtIoN: AtTRACTIONS of Multi-Form or Reconfigurability," Invited Presentation, Conference on Consumer-Oriented Product Design, The Center for Customer Insight and Marketing Solutions, The University of Texas, Austin, TX, October 12-13, 2007.
77. Jensen, D., Wood, K.L., "Innovative MAV Designs Based on Transformation", Invited presentation for the AFRL UAS Workshop, Wright Patterson AFB, January, 2008.
78. Wood, K. L. and Schmidt, K., "Journeys in Hands-on, Active Learning," *Discovery Learning Lunch*, Natural Sciences, The University of Texas, Austin, TX, March 2008.
79. Wood, K.L. and Jensen, D.J., "Innovative Approaches to Design and Rapid Prototyping", Invited presentation for AFRL's Commander's Challenge Team, Wright Patterson AFB, April, 2008.
80. Walther, B., Putnam, N., Weaver, J., Wang, D., Jensen, D., Wood, K. L., "Transformation Design," Invited Presentation, Eglin Air Force Base, Eglin, Fl, May 1, 2008.
81. Wood, K. L., "Connecting Environmental Intelligence in Product Design to Customer Impact," Invite panel Presentation, *Achieving Customer Impact by Balancing Environmental Intelligence, Supply Chain Optimization and Product Design Symposium*, McCombs Center for Customer Insight and Marketing Solutions, UT-Austin, May 2008.
82. Wood, K. L., Jensen, D., and Linsey, J., "Designing Active Learning Activities and Associated Assessment Plans," Invited Presentation, *NSF CCLI Conference*, Washington, DC, August 15, 2008.
83. Wood, K. L., Jensen, D., and White, C., "Active Learning Research – a Basis for the Design of Classroom Activities," Invited Presentation, *2008 Global Colloquium on Engineering Education*, Cape Town, South Africa, October 23, 2008.

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84. Jensen, D. and Wood, K. L., "Design for tRaNsFoRmAtIoN," Invited Presentation, *Eglin Air Force Base*, Eglin, Fl, May 2, 2009.
85. Wood, K. L., "Journeys in Hands-On, Active, and Collaborative Learning," *New Faculty Orientation*, Cockrell School of Engineering, Fall 2009.
86. Fowler, W. and Wood, K. L., "Why Don't Students Like School," *Faculty Innovation Seminar*, Cockrell School of Engineering, October 30, 2009.
87. Wood, K. L., "Engineering Innovation: Design-by-Analogy and Design for tRaNsFoRmAtIoN," Invited Presentation, Oregon State University, November 9, 2009.
88. Wood, K. L., "Concept Development of Innovative Systems for Demilitarization," Invited Presentation, Defense Ammunition Center (DAC), McAlester, OK, October, 25, 2010.
89. Wood, K. L., "Quality Engineering: QFD and Prototype Partitioning," Invited Course Teaching, Northwestern University, February 22, 2011.
90. Wood, K. L., "Innovative Ideation: Design-by-Analogy, Design for tRaNsFoRmAtIoN, and Collaborative Design" Invited Presentation, Northwestern University, February 22, 2011.
91. Wood, K. L., "Innovative Ideation: Design-by-Analogy, Design for tRaNsFoRmAtIoN, and Collaborative Design" Invited Presentation, Singapore University of Design and Technology, March 23, 2011.
92. Wood, K. L., "The Designed World: Exploring Products and Innovations," Invited Presentation, Singapore University of Design and Technology, Presentation to 400 participants of the Junior College Community (equivalent to senior high school), A-level exam students and teachers, March 24, 2011.
93. Wood, K. L., "Interdisciplinary Teaching Innovations for the 21st Century," Invited Presentation, Engineering Advisory Board Meeting, The University of Texas, AT&T Center, April 9, 2011.
94. Wood, K. L., "Energy Harvesting Off-the-Grid," Sustainable Design Symposium 2011, The University of Texas, Visual Arts Center, Austin, TX, April 15, 2011.
95. Wood, K. L., Moderator, "Design Thinking: An Opportunity for Singapore," Innovation for the Environment Series, Singapore Environment Institute (SEI), Panel: Paul Bennett (CEO of IDEO) and Mr. Andrew Tan (CEO of the Singapore Environment Agency), October 20, 2011.
96. Wood, K. L., Keynote – SP Final Year Assembly, "The Exciting Climate of Higher Education – SUTD," Singapore, Spring 2012.
97. Wood, K. L., Invited Presentation, "The SUTD-MIT International Design Centre (IDC): Design Science for the Next Generation," Trinity College and Science Gallery, Dublin, Ireland, July 2012.
98. Wood, K. L., Opening Address, "The Designed World: Exploring Products and Innovations," *Raffle Institution's 2nd International Science Camp*, 300-400 students, Summer 2012.